

DEPARTMENT OF ENERGY

Office of River Protection

HANFORD SITE

Agency Update to Hanford Advisory Board

Tom Fletcher
Tank Farms Project Assistant Manager



ORP Activities

Safety Culture

Tank Retrievals

One-System

Waste Management and Tank Closure Environmental Impact Statement

Large Scale Integrated Testing



Workers lower an Off-Riser Sampler into tank C-109



BEFORE – TBX-1 terminal box during initial demolition



AFTER – Wires neatly grouped just beneath the yet-to-be-installed new terminal box. 2



C-Farm Status

C-112 C-108

Bulk retrieval completed in April Retrieval efforts complete

C-107 Using the Mobile Arm Retrieval System – Bulk retrieval began in October 2011. Completion is expected in the Summer of 2012.

C-111 Conducting a remote evaluation of the hard heel materials with a Raman Spectrometer. Operations expected to resume mid 2012.

C-109 Hard heel removal start in Spring of 2012. Completion planned for Fall of 2012.

C-110 Engineering support and installation of fold track to aid in Hard Heel Removal in 2013.

C-104 Hard Heel removal – caustic dissolution begins in June 2012

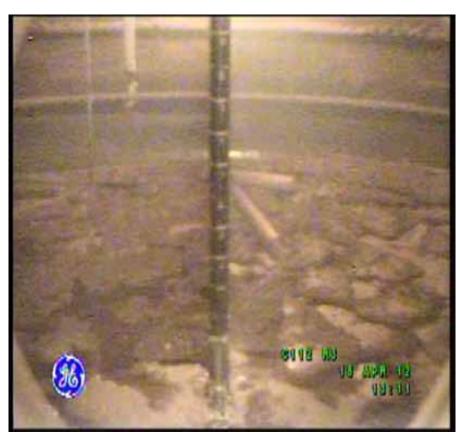
C-105 Preparations are underway or installation of the vacuum version of the Mobile Arm Retrieval System. System currently under development.

C-101 Infrastructure continues with installation of Enhanced Reach Sluicer Systems.and C-102 Installation expected in Summer of 2012 with retrieval in early FY13.

C-112 Bulk Retrieval Complete



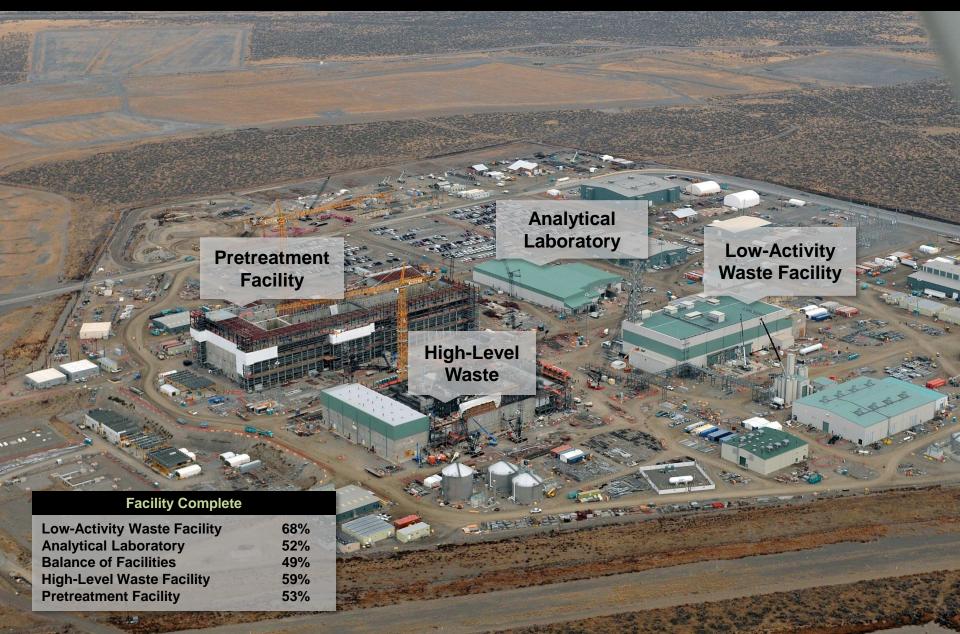
C-112 before sluicing operations began (December 2011)



C-112 on April 18 after operations were completed



Waste Treatment Plant is 64% Complete



WTP Recent Accomplishments

Pretreatment Facility

Action plan completed for resolution of corrosion/erosion issues

Low Activity Waste

- Three six-ton exhausters installed
- Installation of liquid feed process vessel began
- Preparing melter for refractor installation

High Level Waste

- 102 ton-shield door received
- Melter #2 wall placement completed
- Plant wash vessel received

Balance of Facilities

 Began erecting structural steel for Anhydrous Ammonia Facility



Glass former silos

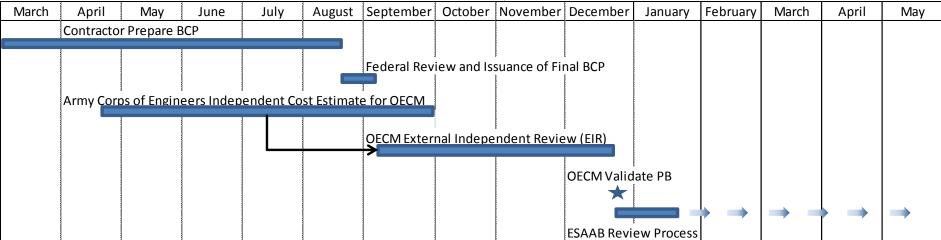


High-Level Waste Facility melter bay



WTP Rebaseline

Best Case Notional Performance Baseline Development Schedule (DOE-413.3B Process)



Best Case Notional Contract Modification Process (Federal Acquisition Regulation Process)

| Dest case Notional Contract Modification Process (Lederal Acquisition Regulation Process) | | | | | | | | | | | | | | |
|---|-------|-----|---|---|---|---|--------------|--------------|------------|--|-------------|-----------|------------|-------|
| March | April | May | June | July | August | September | October | November | December | January | February | March | April | May |
| Contractor Prepare BCP | | | | | | | | | | | | | | |
| | | | *************************************** | Contracto | r Develop Co | | | aluation and | Develon Pi | re-negotiat | ion Strates | 7V | | |
| | | | *************************************** | *************************************** | *************************************** | DOE TECH | und Cost Eve | naction and | | Pre-negotiation Strategy Contract Negotiations | | | | |
| | | | *************************************** | *************************************** | | 700000000000000000000000000000000000000 | | | | | | WTP Issue | Contract M | lod ★ |

ORP Safety

- DNFSB receives ORP Safety Culture Improvement Plan
 - Action 1-8 of DNFSB Implementation Plan for 2011-1
 - Effectively managing change
 - Management focus
 - Safety Culture Integrated Project Team
- Safety Conscious Work Environment
 - Training
 - Site-wide survey
- Employee Concerns Program Assist Visit
- Encouraging a vigorous questioning attitude
 - Safety Culture website
 - Zero threshold issue resolution system

Safety Statistics

BNI recently surpassed 11 million hours without a lost time work injury

WRPS 3 million hours without a lost time work injury – Company-wide Safety Culture Survey completed



Connect with

The River Protection Project

news, photos, podcasts, press releases, and more...



facebook.com/riverprotection



twitter.com/riverprotection



flickr.com/riverprotection



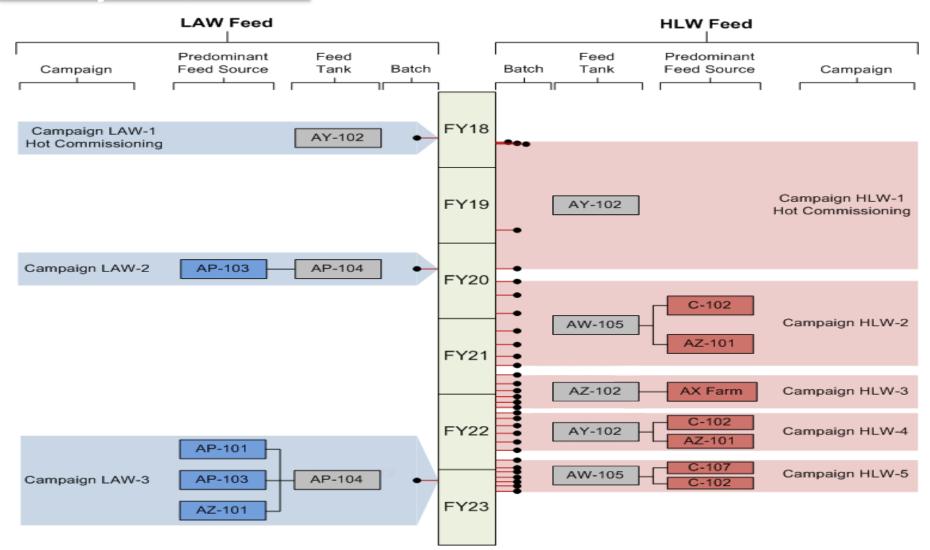
youtube.com/ORPHanford



Please Contact Erik Olds (<u>Theodore E Olds@orp.doe.gov</u>)or 509-372-8656) to be added to the newsletter distribution list

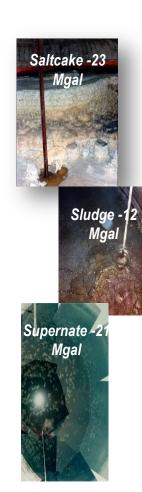
BACK UP SLIDES

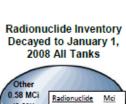
Initial Waste Feed Delivery Schedule

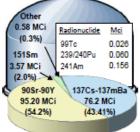




Waste Composition

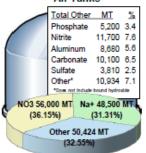






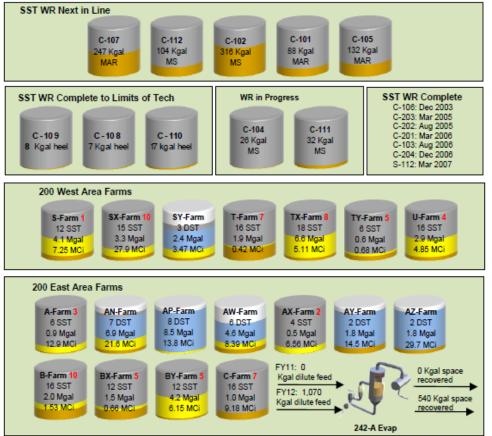
Total in All Tanks 175.55 MCi





Total in All Tanks 154,282 Metric Tons

Hanford Tank Waste



Ref. Tank Inventories and Status per HNF-EP-0182, Rev. 280, "Waste Tank Summary Report for Month Ending July. 31, 2011." Activity and Chemical invintory per TWINS Best Basis Summary Sept. 23, 2011 Activity decayed to January 1, 2008

Legend:

MARS – Mobile Arm Retrieval System

MS – Modified Sluicing

Name #

Waste in farm

number of known or suspected leakers

available space

restricted space

supemate

saltcake

sludge

Opportunity 1: Early LAW Glass

